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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 03/08/2019

Lab ID	:	CP-2019-08-28-88
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC Drains 10th B Cross Roads and Surroundings Areas in Ward No 04, Yelahanka Division.
Agency	:	Sri.D.V.Kumar, No.657, 5th Main, L.G.Ramanna Layout, Laggere, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/64/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-07-19
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	03/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	27/07/2019	03/08/2019	149.93 X 149.91 X 150.63	22476	8.102	420.0	18.7	18.4
2	Drain Bottom Slab Concrete	M20	27/07/2019	03/08/2019	149.35 X 150.17 X 150.56	22428	8.516	405.8	18.1	
3	Drain Bottom Slab Concrete	M20	27/07/2019	03/08/2019	151.55 X 149.54 X 151.85	22663	8.350	417.0	18.4	

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-08-28-88 **Date: 24/08/2019**

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Construction of RCC Drains 10th B Cross Roads and Surroundings Areas in Ward No 04, Yelahanka Division.

Agency : Sri.D.V.Kumar, No.657, 5th Main, L.G.Ramanna Layout, Laggere, Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-09/W.O/64/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-07-19

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl 5

Date of test : 24/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	27/07/2019	24/08/2019	150.56 X 150.80 X 150.48	22704	8.464	531.2	23.4	23.3
2	Drain Bottom Slab Concrete	M20	27/07/2019	24/08/2019	151.95 X 150.88 X 150.37	22926	8.050	521.8	22.8	
3	Drain Bottom Slab Concrete	M20	27/07/2019	24/08/2019	149.46 X 150.42 X 149.62	22481	8.678	532.7	23.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-08-28-88

Date: 03/08/2019

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Construction of RCC Drains 10th B Cross Roads and Surroundings Areas in Ward No 04, Yelahanka Division.

Agency : Sri.D.V.Kumar, No.657, 5th Main, L.G.Ramanna Layout, Laggere, Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-09/W.O/64/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-07-19

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	27/07/2019	03/08/2019	151.50 X 151.81 X 150.08	22998	8.102	428.1	18.6	18.6
2	Drain Bottom Slab Concrete	M20	27/07/2019	03/08/2019	149.16 X 150.83 X 149.96	22497	8.516	409.4	18.2	
3	Drain Bottom Slab Concrete	M20	27/07/2019	03/08/2019	151.29 X 149.05 X 149.06	22550	8.350	426.8	18.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-08-28-88 Date: 24/08/2019

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Construction of RCC Drains 10th B Cross Roads and Surroundings Areas in Ward No 04, Yelahanka Division.

Agency : Sri.D.V.Kumar, No.657, 5th Main, L.G.Ramanna Layout, Laggere, Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-09/W.O/64/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-07-19

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	27/07/2019	24/08/2019	150.09 X 150.22 X 149.10	22547	8.464	527.4	23.4	23.1
2	Drain Bottom Slab Concrete	M20	27/07/2019	24/08/2019	150.25 X 149.59 X 151.26	22475	8.050	515.8	22.9	
3	Drain Bottom Slab Concrete	M20	27/07/2019	24/08/2019	150.15 X 151.36 X 149.03	22726	8.678	523.9	23.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 08/08/2019

Lab ID	:	**CP-2019-08-28-88**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC Drains 10th B Cross Roads and Surroundings Areas in Ward No 04, Yelahanka Division.
Agency	:	Sri.D.V.Kumar, No.657, 5th Main, L.G.Ramanna Layout, Laggere, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/64/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-08-19
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	08/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	01/08/2019	08/08/2019	150.75 X 151.82 X 150.47	22888	8.102	433.1	18.9	18.8
2	Drain Side Wall Concrete	M20	01/08/2019	08/08/2019	149.43 X 149.51 X 151.28	22341	8.516	422.8	18.9	
3	Drain Side Wall Concrete	M20	01/08/2019	08/08/2019	149.27 X 149.27 X 149.75	22281	8.350	412.7	18.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 29/08/2019

Lab ID	:	**CP-2019-08-28-88**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC Drains 10th B Cross Roads and Surroundings Areas in Ward No 04, Yelahanka Division.
Agency	:	Sri.D.V.Kumar, No.657, 5th Main, L.G.Ramanna Layout, Laggere, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/64/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	31-07-19
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	29/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	01/08/2019	29/08/2019	149.19 X 149.86 X 150.70	22357	8.464	522.5	23.4	23.2
2	Drain Side Wall Concrete	M20	01/08/2019	29/08/2019	150.12 X 150.12 X 149.47	22536	8.050	503.8	22.4	
3	Drain Side Wall Concrete	M20	01/08/2019	29/08/2019	151.91 X 150.20 X 150.88	22817	8.678	542.7	23.8	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-08-28-88

Date: 14/08/2019

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Construction of RCC Drains 10th B Cross Roads and Surroundings Areas in Ward No 04, Yelahanka Division.

Agency : Sri.D.V.Kumar, No.657, 5th Main, L.G.Ramanna Layout, Laggere, Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-09/W.O/64/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 09-08-19

Customer ID : Culvert Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl 5

Date of test : 14/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Concrete	M20	07/08/2019	14/08/2019	150.99 X 151.49 X 149.33	22873	8.102	420.4	18.4	18.3
2	Culvert Concrete	M20	07/08/2019	14/08/2019	151.04 X 151.52 X 149.80	22886	8.516	418.1	18.3	
3	Culvert Concrete	M20	07/08/2019	14/08/2019	151.22 X 151.39 X 151.62	22892	8.350	420.1	18.4	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2019-08-28-88 **Date: 04/09/2019**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC Drains 10th B Cross Roads and Surroundings Areas in Ward No 04, Yelahanka Division.
Agency	:	Sri.D.V.Kumar, No.657, 5th Main, L.G.Ramanna Layout, Laggere, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/64/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-08-19
Customer ID	:	Culvert Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	04/09/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Concrete	M20	07/08/2019	04/09/2019	150.33 X 151.70 X 151.84	22806	8.464	542.0	23.8	23.2
2	Culvert Concrete	M20	07/08/2019	04/09/2019	150.99 X 151.29 X 149.91	22844	8.050	508.3	22.2	
3	Culvert Concrete	M20	07/08/2019	04/09/2019	150.78 X 151.53 X 150.28	22848	8.678	535.7	23.4	

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-08-28-88** **Date: 22-07-19**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC Drains 10th B Cross Roads and Surroundings Areas in Ward No 04, Yelahanka Division.
Agency	:	Sri D V Kumar, No.657, 5th Main, L G Ramanna Layout, Laggere, Bangalore
Customer's Reference	:	EE(YNK D)E-PMT-09/W O/64/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-07-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11) 1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4 4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	19-07-19
Environmental Conditions during test	:	Temperature 26°C Humidity 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.46	–
2	Finess by Air permeablity method (m^2/kg,Min)	255.8	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	280 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

Note:

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Quality Manager

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-08-28-88** **Date: 22-07-19**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC Drains 10th B Cross Roads and Surroundings Areas in Ward No 04, Yelahanka Division.
Agency	:	Sri.D.V.Kumar, No.657, 5th Main, L.G.Ramanna Layout, Laggere, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/64/2019-20
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	18-07-19
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	18-07-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	234	234	1.6	98.4	90-100
3	20 mm	5334	5568	37.1	62.9	30-70
4	10 mm	4788	10356	69.0	31.0	10-35
5	4.75 mm	4354	14710	98.1	1.9	0-5
6	Pan	290	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-08-28-88** **Date: 20-07-19**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC Drains 10th B Cross Roads and Surroundings Areas in Ward No 04, Yelahanka Division.
Agency	:	Sri.D.V.Kumar, No.657, 5th Main, L.G.Ramanna Layout, Laggere, Bangalore
Customer Reference	:	EE(YNK.D)E-PMT-09/W.O/64/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-07-19
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	18-07-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : **5000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	245	245	4.9	95.1	90-100
3	10 mm	2675	2920	58.4	41.6	25-55
4	4.75 mm	1798	4718	94.4	5.6	0-10
5	Pan	282	5000	100	0	-

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2019-08-28-88** **Date: 20-07-19**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC Drains 10th B Cross Roads and Surroundings Areas in Ward No 04, Yelahanka Division.
Agency	:	Sri.D.V.Kumar, No.657, 5th Main, L.G.Ramanna Layout, Laggere, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/64/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-07-19
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	18-07-19
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---
Result :The tested Sample Conforms to Grading Zone II									

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2019-08-28-88** **Date: 24-07-19**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC Drains 10th B Cross Roads and Surroundings Areas in Ward No 04, Yelahanka Division.
Agency	:	Sri.D.V.Kumar, No.657, 5th Main, L.G.Ramanna Layout, Laggere, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/64/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-07-19
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	23-07-19

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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Quality Manager

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TEST REPORT OF PRECAST COVER SLAB

Date: 05-08-19

Lab ID	:	CP-2019-08-28-88
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC Drains 10th B Cross Roads and Surroundings Areas in Ward No 04, Yelahanka Division.
Agency	:	Sri.D.V.Kumar, No.657, 5th Main, L.G.Ramanna Layout, Laggere, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/64/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-08-19
Sample Type /Size	:	Precast Cover Slab(100 mm)
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	01/08/2019

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

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TEST REPORT OF PRECAST COVER SLAB

Format No: CP/TF/01

Lab ID : CP-2019-08-28-88

Date: 05-08-19

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Construction of RCC Drains 10th B Cross Roads and Surroundings Areas in Ward No 04, Yelahanka Division.

Agency : Sri.D.V.Kumar, No.657, 5th Main, L.G.Ramanna Layout, Laggere, Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-09/W.O/64/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 01-08-19

Sample Type /Size : Precast Cover Slab(250mm)

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 01/08/2019

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	200.49	250.49	3.118	31564	240.7	7.6	7.1	8.9
2	Cover Slab-2	200.52	250.51	3.114	31574	242.5	7.7	7.1	8.9
3	Cover Slab-3	200.51	250.52	3.116	31570	241.3	7.6	7.1	8.9

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 03/08/2019

Lab ID	:	CP-2019-08-28-88
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC Drains 10th B Cross Roads and Surroundings Areas in Ward No 04, Yelahanka Division.
Agency	:	Sri.D.V.Kumar, No.657, 5th Main, L.G.Ramanna Layout, Laggere, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/64/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-07-19
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	03/08/2019

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	27/07/2019	03/08/2019	149.32 X 151.57 X 149.38	22632	8.102	415.5	18.4	18.5
2	Drain Bottom Slab Concrete	M20	27/07/2019	03/08/2019	150.85 X 149.17 X 149.81	22503	8.516	411.8	18.3	
3	Drain Bottom Slab Concrete	M20	27/07/2019	03/08/2019	149.76 X 149.86 X 151.79	22442	8.350	423.7	18.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-08-28-88** **Date: 03/08/2019**

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Construction of RCC Drains 10th B Cross Roads and Surroundings Areas in Ward No 04, Yelahanka Division.

Agency : Sri.D.V.Kumar, No.657, 5th Main, L.G.Ramanna Layout, Laggere, Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-09/W.O/64/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-07-19

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	27/07/2019	03/08/2019	149.76 X 151.28 X 151.61	22656	8.102	411.6	18.2	18.2
2	Drain Bottom Slab Concrete	M20	27/07/2019	03/08/2019	151.00 X 150.00 X 150.25	22649	8.516	411.1	18.2	
3	Drain Bottom Slab Concrete	M20	27/07/2019	03/08/2019	149.44 X 150.70 X 150.77	22521	8.350	413.7	18.4	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 24/08/2019

Lab ID	:	**CP-2019-08-28-88**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC Drains 10th B Cross Roads and Surroundings Areas in Ward No 04, Yelahanka Division.
Agency	:	Sri.D.V.Kumar, No.657, 5th Main, L.G.Ramanna Layout, Laggere, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/64/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-07-19
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	24/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	27/07/2019	24/08/2019	149.57 X 149.96 X 151.77	22430	8.464	535.3	23.9	23.4
2	Drain Bottom Slab Concrete	M20	27/07/2019	24/08/2019	150.71 X 151.75 X 150.05	22871	8.050	521.2	22.8	
3	Drain Bottom Slab Concrete	M20	27/07/2019	24/08/2019	149.01 X 149.17 X 149.94	22227	8.678	523.8	23.6	

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